

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: February 5, 1996
Date Received: February 1, 1996
Project: Self Monitor, PO #M52141
Date Samples Extracted: February 2, 1996
Date Extracts Analyzed: February 2, 1996

**RESULTS FROM THE ANALYSIS OF THE PROCESS WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, AND ZINC
USING METHOD 6010**

Samples Processed Using Method 3005
Results Reported as mg/L (ppm)

Sample ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M52141	0.64	0.50	0.39	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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**QUALITY ASSURANCE RESULTS
 FOR CHROMIUM, COPPER, NICKEL, AND ZINC
 Samples Processed Using Method 3005**

Laboratory Code: KE66331DU

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>Relative Percent Difference</u>	<u>Acceptance Criteria</u>
Chromium	mg/L (ppm)	0.64	0.67	5	0-20
Copper	mg/L (ppm)	0.50	0.61	20	0-20
Nickel	mg/L (ppm)	0.39	0.40	3	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: KE66331MS/MSD

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>Sample Result</u>	<u>% Recovery</u>		<u>Acceptance Criteria</u>	<u>Relative Percent Difference</u>
				<u>MS</u>	<u>MSD</u>		
Chromium	mg/L (ppm)	5	0.64	96	94	80-120	2
Copper	mg/L (ppm)	5	0.50	90	90	80-120	0
Nickel	mg/L (ppm)	10	0.39	93	95	80-120	2
Zinc	mg/L (ppm)	5	<0.05	97	101	80-120	4

Laboratory Code: Spike Blank

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>% Recovery MS</u>	<u>Acceptance Criteria</u>
Chromium	mg/L (ppm)	5	105	80-120
Copper	mg/L (ppm)	5	100	80-120
Nickel	mg/L (ppm)	10	105	80-120
Zinc	mg/L (ppm)	5	106	80-120

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

INS AI
2-1-96
10:45

Send Report To: ALASKAN Copper Works Contact GERALD Thompson
Company ALASKAN Copper Works
Address 628 Hanford St
City, State, Zip Seattle WA 98134
Phone # (206) 382-8779 Date 2-1-96

SITE NO.		PROJECT NAME		PURCHASE ORDER #	
7238		SOLF monitor		m52141	
SAMPLERS (signature)				PROJECT LOCATION	
[Signature]				3200 6th Ave	
REMARKS				SAMPLE DISPOSAL INFORMATION	
				<input type="checkbox"/> Dispose after 30 days <input checked="" type="checkbox"/> Return Samples <input type="checkbox"/> Call for Instructions	

[illegible]

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: <i>[Signature]</i>	JAROSLAV KOLBEL	A.C.W.	2/1/96	
Received by: <i>[Signature]</i>	Cathy Downing	FBI	2/1/96	10:30
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3012 16th Avenue West
Seattle, WA 98119-2029
FAX: (206) 283-5044

February 5, 1996

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on February 1, 1996 from your Self Monitor, PO #M52141 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kurt Johnson
Chemist

keh
Enclosures
FAX: 382-7335
ACU0205R.DOC

FRIEDMAN & BRUYA, INC.

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February 5, 1996

**INVOICE # 96ACU0205-1
DUPLICATE COPY**

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Self Monitor, PO #M52141: Results of testing requested by Gerry Thompson, Project Manager for material submitted on February 1, 1996.

**1 process water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$65 per sample**

\$ 65.00

Amount Due

\$ 65.00